Appl. No. 10/532,927   Page 2 of 8
Amendment and/or Response
Reply to Office action of 8 March 2007

<u>**Amendments to the Claims**</u>:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A transmission system comprising:

a transmitter,

a transmission network having a time varying state, and

a receiver,

wherein:

the transmitter includes an encoder for generating redundancy packets <u>above the OSI Network Level (OSI Level 3)</u> from media packets so as to provide an error correction capability at the receiver, the correction capability depending on the amount of redundancy generated by the encoder, <u>and</u>

the receiver includes an analyser that is configured to analyze packet errors occurring on the transmission network and determine an optimal amount of redundancy that provides an error correction capability allowing to respect a maximum tolerated packet error rate, and is configured to communicate the optimal amount of redundancy to the transmitter for use by the encoder.

2. (Previously presented) The transmission system of claim 1, wherein the transmitter includes a media source for delivering the media packets with an adaptable media bitrate, and the encoder is designed to control the media bitrate depending on the amount of redundancy currently added by the encoder.

Appl. No. 10/532,927   Page 3 of 8
Amendment and/or Response
Reply to Office action of 8 March 2007

3. (Currently amended) The transmission system of claim 1, wherein the analyser is designed to:

a) keep a history of numbers of packet errors in a plurality of transmission blocks,

b) and for different numbers of possible redundancy packets in each transmission block:

calculate a mean value of numbers of packet errors in the plurality of transmission blocks after correction with an error correction capability corresponding to the number of possible redundancy packets,

calculate a corresponding packet error rate based on the mean value, and

compare the corresponding packet error rate with the maximum tolerated packet error rate for selecting the optimal amount of redundancy.

4. (Currently amended) A receiver for receiving media packets and redundancy packets transmitted by a transmitter via a transmission network having a time-varying state, the redundancy packets being generated from the media packets above the OSI Network Level (OSI Level 3) so as to provide an error correction capability of a certain number of packets at the receiver, the receiver comprising:

an analyser for analysing packet errors occurring on the transmission network and for determining an optimal amount of redundancy that provides an error correction capability allowing to respect a maximum tolerated packet error rate, and

a feedback device that is configured to feed back the optimal amount of redundancy to the transmitter.

Appl. No. 10/532,927   Page 4 of 8
Amendment and/or Response
Reply to Office action of 8 March 2007

5. (Currently amended) The receiver of claim 4, wherein the analyser is designed to:

a) keep a history of the number B_i of packet errors in a plurality of transmission blocks,

b) and for different numbers of possible redundancy packets:

calculate a mean value of numbers of packet errors in the plurality of transmission blocks after correction with an error correction capability based on the number of possible redundancy packets,

calculate a corresponding packet error rate, and

compare the corresponding packet error rate with the maximum tolerated packet error rate for selecting the optimal amount of redundancy.

6. (Previously presented) The receiver of claim 4, wherein the received media packets are intended to be used by an application, and the maximum tolerated packet error rate is set by the application.

7. (Currently amended) A transmitter for transmitting packets to a receiver via a transmission network having a time varying state, the transmitter comprising:

an encoder for generating redundancy packets above the OSI Network Level (OSI Level 3) from media packets so as to provide an error correction capability of a certain number of packets at the receiver, the correction capability depending on an amount of redundancy generated by the encoder, and

the encoder being designed to set the amount of redundancy to an optimal value that gives an error correction capability allowing to respect a maximum tolerated packet error rate defined at the receiver, the optimal value being fed back to the transmitter by the receiver based on prior transmissions from the transmitter.

8. (Previously presented) The transmitter of claim 7, including a media source for delivering the media packets with an adaptable media bitrate, wherein the encoder is designed to control the adaptable media bitrate depending on the amount of redundancy generated by the encoder.

Appl. No. 10/532,927   Page 5 of 8
Amendment and/or Response
Reply to Office action of 8 March 2007

9. (Currently amended) A method for determining an amount of redundancy to be used in a forward error correction scheme in which redundancy packets are generated from media packets <u>above the OSI Network Level (OSI Level 3)</u> at a transmitter so as to provide a correction capability of a certain number of packets at a receiver, the method comprising:

analysing packet errors occurring on the transmission network at the receiver ,

determining an optimal amount of redundancy that provides an error correction capability allowing to respect a maximum tolerated packet error rate at the receiver,

communicating the optimal amount of redundancy from the receiver to the transmitter.

10. (Previously presented) A program comprising instructions for implementing the method of claim 9 when the program is executed by a processor.